

Current Status of the Claims

Claims 1 to 20 incl. (cancelled)

21. (previously presented) A filtering system comprising:
an inlet for receiving liquid to be filtered,
a reservoir fed by said inlet,
an outlet for receiving fluid that overflows said reservoir,
a plurality of adjacent filter cells fed by said reservoir,
each filter cell having:
(a) at least first and second layers of filtering material,
(b) one of which layers receives water from said reservoir,
and allows said water to pass to the other layer,
(c) the other of said layers having two vertical sides one
of which sides is adjacent said one layer, and
(d) a drain adjacent the other said side of said other
layer, and
an outlet for filtered water fed by said drain,
said cells being circular and concentric.

22-25 (cancelled)

26. (previously presented) A filtering system as defined in
claim 21, in which said cells are not only circular and concentric
with each other, but are complete circles extending 360 degrees.

27. (previously presented) A filtering system as defined in
claim 21, in which each layer of each cell is circular and
concentric with all other layers of said cells.

28. (previously presented) A filtering system as defined in claim 27, in which each of said layers has top and bottom ends and two sides,

said one layer being open at one end to receive liquid from said reservoir and having a fluid blockade at its other end, said one layer also having a filtering material which is coarse as compared to the filtering material in the other layer,

said other layer having one of its said ends adjacent said reservoir and a fluid blockade at each of its said ends so that fluid passes from said one layer through said other layer to said drain.

29. (previously presented) A filtering system as defined in claim 28, in which a single outlet receives the fluid that overflows said reservoir and also receives the fluid from said drains.

30. (previously presented) A filtering system as defined in claim 29, in which there are more than two of said cells.

31. (previously presented) A filtering system as defined in claim 21, in which said reservoir is below said cells and has a conduit that extends vertically upward to thereby apply sufficient fluid pressure to the fluid in said reservoir to force said fluid under pressure through said cells, and

an output drain adjacent said second side of said second layer.

32. (cancelled)

33. (previously presented) A filtering system as defined in claim 31, in which each layer of each cell is circular, and concentric with all other layers.

34. (previously presented) A filtering system as defined in claim 33, in which said drains and any fluid that overflows said reservoir, feed a common outlet.

35. (previously presented) A filtering system as defined in claim 34, in which there are more than two of said cells.

36. (previously presented) A filtering system as defined in claim 35, in which each of said layers has top and bottom ends and two sides,

said one layer being open at one end to receive liquid from said reservoir and having a fluid blockade at its other end, said one layer also having a filtering material which is coarse as compared to the filtering material in the other layer,

said other layer having one of its said ends adjacent said reservoir and a fluid blockade at each of its said ends so that fluid passes from said one layer through said other layer to said drain.

37-40 incl. (cancelled)

41. (previously presented) A filtering system comprising:
an inlet for receiving fluid to be filtered,
a reservoir fed by said inlet,
an outlet for receiving fluid that overflows said reservoir,
and
a filter cell fed by said reservoir,
said filter cell having:

(a) at least first and second layers of filtering material,
said first and second layers having a common porous sidewall,

(b) the first of which layers receives fluid from said
reservoir and allows said fluid to pass through said porous
sidewall to the second layer,

(c) a drain, said second layer and said drain having a
common porous sidewall,

said porous sidewalls comprising a material for preventing
passage of filtering material therethrough while allowing passage
of fluid therethrough,

in which there are at least two of said cells and in which
one of said cells completely surrounds another cell in at least one
plane.

42 and 43 (cancelled)

44. (previously presented)) A filtering system comprising:
an inlet for receiving fluid to be filtered,
a reservoir fed by said inlet,
an outlet for receiving fluid that overflows said reservoir,
and

a filter cell fed by said reservoir,
said filter cell having:

(a) at least first and second layers of filtering material
said first and second layers having a common porous sidewall,

(b) the first of which layers receives fluid from said
reservoir and allows said fluid to pass through said porous
sidewall to the second layer,

(c) a drain, said second layer and said drain having a
common porous sidewall,

said porous sidewalls comprising a material for preventing
passage of filtering material therethrough while allowing passage
of fluid therethrough,

in which said drain surrounds said layers in at least one
plane.

45 and 46 (cancelled)

47. (previously presented) A filtering system comprising:
an inlet for receiving fluid to be filtered,
a reservoir fed by said inlet,
an outlet for receiving fluid that overflows said reservoir,
and

a filter cell fed by said reservoir,
said filter cell having:

(a) at least first and second layers of filtering material,
said first and second layers having a common porous sidewall,

(b) the first of which layers receives fluid from said
reservoir and allows said fluid to pass through said porous
sidewall to the second layer,

(c) a drain, said second layer and said drain having a
common porous sidewall,

said porous sidewalls comprising a material for preventing
passage of filtering material therethrough while allowing passage
of fluid therethrough,

in which said layers and drain are cylindrical and
concentric and said drain surrounds said layers in at least one
plane.

48 to 52 incl. (cancelled)

53. (previously presented) A filtering system,
comprising:

a first filtering media,

a second filtering media that is different than said first
media,

a first porous barrier that allows fluid, but not filtering
media, to flow through it, separating said first and second
filtering media,

a drain,

a second porous barrier separating said drain from said
second filtering media, said second porous barrier allowing fluid
to flow through it from said second filtering media to said drain
but not allowing filtering media to pass through it, and

an inlet for feeding fluid to be filtered to said first
filtering media,

wherein said first filtering media has two sides,

said second filtering media being located adjacent both of
said two sides,

said first porous barrier extending between said first and
second media along both of said two sides.

54 and 55 (cancelled)

56. (previously presented) A filtering system, comprising:
a first filtering media,
a second filtering media that is different than said first media,
a first porous barrier that allows fluid, but not filtering media, to flow through it, separating said first and second filtering media,
a drain,
a second porous barrier separating said drain from said second filtering media, said second porous barrier allowing fluid to flow through it from said second filtering media to said drain but not allowing filtering media to pass through it, and
an inlet for feeding fluid to be filtered to said first filtering media, and
a reservoir having a tray feeding fluid to be filtered to said first filtering media, said tray having an overflow outlet,
in which said first filtering media has two sides and said first porous barrier and said second filtering media extend along both of said sides, so that fluid in said first filtering media may pass out both of its sides to said second filtering media.

57. (previously presented) A filtering system comprising:
a first filtering media having two sides,
first and second porous barriers each of which has a first
face and a second face,
said first face of said first barrier covering one of said
sides and the first face of the second barrier covering said other
said side,
a second filtering media having a first face covering the
second face of said first barrier, said second filtering media
having a second face,
a third porous barrier that receives fluid from and covers
said second face of said second filtering media,
a first drain that receives fluid that has passed through
said third porous barrier,
a third filtering media having one face covering the second
face of said second porous barrier, said third filtering media
having a second face,
a fourth porous barrier that receives fluid from and covers
said second face of said third filtering media, and
a second drain that receives fluid that passes through said
fourth porous barrier.

58. (previously presented) A filtering system as defined
in claim 57, in which said second and third filtering media are
interconnected and therefore comprise a continuous filtering media.

59. (previously presented) A filtering system as defined in claim 58, in which said first filtering media is elongated and has two ends,

a fifth porous barrier covering one of said ends and
a filtering media covering said barrier that covers said one end.

60. (previously presented) A filtering system as defined in claim 59, in which said first, second and fifth porous barriers comprise one continuous barrier.

61. (previously presented) A filtering system as defined in claim 57, in which said second and third filtering media and said drains are circular and concentric.

62. (previously presented) A filtering system as defined in claim 57, in which one of said drains surrounds, in one plane, all of the other elements of said claim 57.

63. (previously presented) A filtering system as defined in claim 57, in which said porous barriers comprise a geotextile material that is fine enough to retain said second and third filtering media.

Claims 64-75 (cancelled)

76. (new) A filter for filtering a fluid comprising:
first and second filter cells each of which is a filter for said fluid and one of which cells surrounds the other in at least one plane,
each said filter cell having two sides, one of which sides is an input side and one of which is an output side,
each said filter cell having a drain which extends from said output side toward said input side and receives the filtered fluid and discharges the filtered fluid, said drain having two ends one of which is open to the flow of said fluid and is at said output side and the other of which ends is closed to the flow of said fluid,
each said filter cell having filtering material for filtering said fluid,
each said filter cell having a fluid flow path for receiving fluid to be filtered at said input side and passing said fluid through said filtering material to said drain, and
means for distributing the fluid to be filtered to said cells with only a part of the total fluid being fed to each cell.

77. (new) A filter as defined in claim 76, wherein each cell has a layer of material in which each of said cells and any layer thereof are composed of pieces that are separate from the pieces composing each other said cell.

78. (new) A filter as defined in claim 76, in which each of said two sides of each cell is horizontal.

79. (new) A filter as defined in claim 76, in which said fluid is a liquid and said filtering material is a material for filtering liquids.

80. (new) A filter as defined in claim 76, in which said plane is horizontal.

81. (new) A filter as defined in claim 76, in which said fluid is water and flows through the filter under the force of gravity,

said means for distributing comprising a reservoir that places said input side under said water so that each said fluid flow path is fed with said water,

each said filter cell having means for receiving the fluid to be filtered and guiding it along said fluid flow path to said drain.

82. (new) A device for filtering a fluid, comprising:

a filter having two sides one of which is an input side for receiving the fluid to be filtered and the other of which sides is an output side for discharging the filtered fluid,

said sides having a space between them,

said device including a first filtering portion that extends at least most of the way from one of said sides to the other of said sides in said space,

said device also having a second filtering portion surrounding said first portion in said space,

means for feeding the fluid to be filtered to said portions

so that each said portion receives and filters only a separate part of the fluid to be filtered and including filtering material that filters fluid passing through such portion,

each said portion having a drain which receives the filtered fluid and delivers it to said output side,

each said drain having an end at said output side which end is open to allow the fluid to be discharged from said drain, each drain terminating in a second end which is closed to fluid flow.

83. (new) A device for filtering a fluid as defined in claim 82, in which said sides are horizontal.

84. (new) A device for filtering a fluid as defined in claim 83, in which each said drain is vertical.

85. (new) A device for filtering a fluid as defined in claim 82, in which each said portion defines a path of least resistance to the fluid to be filtered extending from said input side through said filtering material to said drain.

86. (new) A device for filtering a fluid as defined in claim 82, in which each said portion has means for receiving the fluid to be filtered at said input side, filtering the fluid and directing it to said drain.

87. (new) A device for filtering a fluid as defined in claim 86, in which the fluid to be filtered is a liquid and each

said filtering material comprising a material for filtering a liquid.

88. (new) A filter for filtering a fluid, comprising:

- a first layer extending around a central location in at least one plane, said first layer having a first end open to receive the fluid to be filtered and a second end located at a lower elevation than said first end and closed to the passage of fluid through said second end,
- a second layer extending, in at least said plane, around said first layer and composed of filtering material,
- a first drain extending, in at least said plane, around said second layer for discharging filtered fluid from said filter,
- a third layer extending, in said plane, around said drain, said third layer having a first end for receiving fluid to be filtered and having a second end closed to the passage of said fluid,
- a fourth layer comprising filtering material extending, in said plane, around said third layer, and
- a second drain, extending, in said plane, around said fourth layer, for discharging any fluid it receives, and
- means for feeding only a part of the fluid to be filtered to each of said first and third layers.

89. (new) A device for filtering a fluid as defined in claim 88, in which each said layer is a separate piece of material from the material composing all other of said layers.

90. (new) A filter as defined in claim 88, in which each said layer is composed of porous material.

91. (new) A filter as defined in claim 88, in which said second layer is composed of means for filtering a fluid and said fourth layer is also composed of means for filtering a fluid.

92. (new) A device for filtering a fluid as defined in claim 88, in which said first and second layers comprise means for receiving the fluid to be filtered, for passing such fluid through the filtering material of said second layer and delivering the fluid to said drain.

93. (new) A device for filtering a fluid as defined in claim 92, in which said fluid is a liquid and said filtering material is a material that filters a liquid.

94. (new) A device for filtering fluids as defined in claim 93, in which said fluid is runoff water and said filtering material is a material that filters runoff water.

95. (new) A filter for filtering a fluid, comprising:

- a first layer extending around a central location in at least one plane, said first layer having a first end open to receive the fluid to be filtered and a second end located at a lower elevation than said first end and closed to the passage of fluid through said second end,
- a second layer extending, in at least said plane, around said first layer and composed of filtering material,
- a third layer extending, in said plane, around said second layer, said third layer extending, in said plane, around said second layer, said third layer having a first end for receiving fluid to be filtered and having a second end closed to the passage of said fluid, and
- a fourth layer comprising filtering material extending, in said plane, around said third layer.

96. A filter for filtering a fluid as defined in claim 95, in which said fluid is a liquid, and said material is filtering material that filters said liquid.